Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

IN THE CLAIMS:

- 1-27. (Previously Cancelled)
- 28. (Currently Amended) A method of modifying a polymeric material <u>for improving a</u> hydrophilic property, water absorption property or adhesion property which comprises:
- (a) subjecting the polymeric material to an activation step wherein, when the polymeric material is polypropylene, a ratio of about 0.2 or less is observed between the absorbance at 1710 cm⁻¹ due to newly formed carbonyl groups and the absorbance at 973 cm⁻¹ due to methyl groups and when the polymeric material is not polypropylene, a ratio of corresponding value to the case of polypropylene is observed; and
- (b) treating the activated polymeric material produced in said activation step with a hydrophilic polymer in the presence of a catalyst or <u>an</u> initiator under conditions effective to produce said modified polymer <u>, wherein the weight increase of the treated polymeric material is less than 5 wt%</u>.
- 29. (Currently Amended) The method of modifying a polymeric material according to claim 28 further comprising the step of monomer grafting in the presence of a catalyst or initiator under conditions effective to produce said modified polymer after step (b).
- 30. (Currently Amended) The method of modifying a polymeric material according to claim 28, further comprising the step of a solvent-treatment prior to the activation step (a), wherein the polymeric material is dipped in a solvent for about 1 minute to 60 minutes at a

temperature of about 60°C or less, and a weight increase of the polymeric material is 10% or less of the original weight.

- 31. (Currently Amended) The method of modifying a polymeric material according to Claim 28, further comprising the step of a solvent-treatment prior to the activation step (a) and a step of monomer grafting after step (b) , wherein in the solvent-treatment the polymeric material is dipped in a solvent for about 1 minute to 60 minutes at a temperature to about 60°C, and a weight increase of the polymeric material is up to 10% of the original weight.
- 32. (Currently Amended) The method according to claim 28, wherein said polymeric material is a homopolymer or copolymer of one or more compounds selected from the group consisting of: olefins, vinyl compounds except olefins, vinylidene compounds, polyesters, polyamides, polyimides, polyurethanes, polybenzoates, poly(benzoxazole)s, poly(benzthiazole)s, poly-(p-phenylene benzbisoxazole)s, poly-(p-phenylene benzbisothiazole)s, poly(alkyl-p-hydroxybenzoate)s, poly(benzimidazole)s, [carbon] carbonized polymeric materials, polyphenols, cellulose acetate, regenerated cellulose, vinylon, polychlal, casein, wool, silk and hemp, ramie, and jute.
- 33. (Previously presented) The method according to claim 28, wherein said polymeric material is in the form of any one of fibers, woven fabrics, knitted webs, non-woven fabrics, plates, rods, films, sheets, porous films, members or parts of molded materials in a given shape or composite materials with other materials.

- 34. (Original) The method according to claim 28, wherein said activation-treatment is at least one of the treatments selected from the group consisting of an ozone treatment, a plasma treatment, a UV irradiation treatment and a high voltage electric discharge treatment.
- 35. (Previously presented) The method according to claim 28, wherein said hydrophilic polymer is at least one member selected from the group consisting of polyvinyl alcohol, carboxymethylcellulose, poly(hydroxy-ethyl methacrylate), poly-α-hydroxy vinylalcohol, polyacrylic acid, polyvinyl pyrrolidone, polyalkylene glycols, starche, silk fibroin, sericin, agar, gelatin, egg white and sodium arginate.
- 36. (Original) The method according to claim 29, wherein said monomer is a compound having a carbon-carbon double bond.
- 37. (Original) The method according to claim 31, wherein said monomer is a compound having a carbon-carbon double bond.
- 38. (Previously presented) The method according to claim 36, wherein said monomer is at least one acrylic acid, methacrylic acid, vinyl acetate, 2-butene acid, ethylene sulfonic acid, hydroxyalkyl acrylate, hydroxyalkyl methacrylate, acryl amide, vinyl pyridine, vinyl pyrrolidone, vinyl carbazole, maleic anhydride or pyromellitic dianhydride.
- 39. (Previously presented) The method according to claim 37, wherein said monomer is at least one acrylic acid, methacrylic acid, vinyl acetate, 2-butene acid, ethylene sulfonic acid, hydroxyalkyl acrylate, hydroxyalkyl methacrylate, acryl amide, vinyl pyridine, vinyl pyrrolidone, vinyl carbazole, maleic anhydride or pyromellitic dianhydride.

- 40. (Cancelled)
- 41. (Original) The method according to claim 29, wherein the step of monomer grafting is carried out in the presence of catalysts or initiators.
- 42. (Original) The method according to claim 29, wherein said step of monomer grafting is carried out by any one of or both of the following two methods: (1) heating in the presence of catalysts or initiators and (2) UV irradiation in the presence or absence of catalysts, initiators or photo-sensitizers.
- 43. (Original) The method according to claim 31, wherein said step of monomer grafting is carried out by any one of or both of the following two methods: (1) heating in the presence of catalysts or initiators and (2) UV irradiation in the presence or absence of catalysts, initiators or photo-sensitizers.
- 44. (Currently Amended) The method according to claim [40] 28, wherein said initiators are at least one of peroxides, cerium ammonium nitrate (IV) or persulfates.
- 45. (Previously presented) The method according to claim 41, wherein said initiators are at least one of peroxides, cerium ammonium nitrate (IV) or persulfates.
- 46. (Previously presented) Polymeric material obtained by the modification method according to claim 28.
- 47. (Previously presented) Battery separators containing modified polymeric materials obtained by the modification method according to claim 28.

- 48. (Previously presented) Wiping/cleansing materials containing modified polymeric materials obtained by the modification method according to claim 28.
- 49. (Previously presented) Filter mediums containing modified polymeric materials obtained by the method according to claim 28.
- 50. (Previously presented) Water absorption materials containing modified polymeric materials obtained by the method according to claim 28.
- 51. (Previously presented) Water retention materials containing modified polymeric materials obtained by the method according to claim 28.
- 52. (Previously presented) Materials for microorganism culture media containing modified polymeric materials obtained by the method according to claim 28.
- 53. (Previously presented) Composite materials containing modified polymeric materials obtained by the method according to claim 28.
- 54. (Previously presented) Writing materials containing modified polymeric materials obtained by the method according to claim 28.
- 55. (Previously presented) Polymeric materials obtained by the modified method according to claim 28.
- 56. (Previously presented) Medical/sanitary/cosmetic supplies containing modified polymeric materials obtained by the method according to claim 28.

- 57. (Previously presented) Synthetic papers made of modified polymeric materials obtained by the method according to claim 28.
- 58. (Currently Amended) [Brackets for straightening of irregular teeth] Orthodontic brackets containing modified polymeric materials obtained by the method according to claim 28.
- 59. (Previously presented) Textile products for clothing or inner battings of beds/bed clothing containing modified polymeric materials obtained by the method according to claim 28.